

(Rev. 5/92)
Comparable to
Form PTO-1449

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Patent and Trademark Office

Atty. Docket No.

PRO 105.0 (6868/75530)

Serial No.

09/406,147

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Applicants

Shultz, et al.

Filing Date

September 27, 1999

Group

1643

U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
AC	A1	4,735,897	4/5/88	Vary, et al.	435	17	5/2/85
	A2	5,648,232	7/15/97	Squirrell	435	34	4/18/96
	A3	4,595,655	6/86	Self	435	7	12/9/82
	A4	4,446,231	5/84	Self	435	7	10/1/81
	A5	4,743,561	5/10/88	Shaffar	436	501	3/5/85
	A6	4,460,684	7/17/84	Bauer	435	14	8/2/82
	B1	5,498,523	3/96	Tabor, et al.	435	6	
	B2	4,755,458	7/88	Rabbani, et al.	435	5	
	C1	5,876,978	3/99	Willey, et al.	435	91.2	
	C2	5,882,856	3/99	Shuber	435	6	
	C3	5,516,663	5/96	Backman, et al.	435	91.2	
	C4	5,885,775	3/99	Haff, et al.	435	6	
	C5	5,573,906	11/96	Bannwarth, et al.	435	6	
	C6	5,849,547	12/98	Cleuziat, et al.	435	91.21	
	C7	5,866,337	2/99	Schon	435	6	
	C8	5,834,202	10/98	Auerbach	435	6	
	C9	5,869,252	2/99	Bouma, et al.	435	6	
	C10	5,888,819	3/99	Goelet, et al.	435	5	
	C11	5,854,033	12/98	Lizardi	435	91.2	
	C12	5,399,491	3/95	Kacian, et al.	435	6	
	C13	5,766,849	6/98	McDonough, et al.	435	6	
	C14	5,786,183	7/98	Ryder, et al.	435	91.2	
	C15	5,876,924	3/99	Zhang, et al.	435	5	
	C16	5,840,873	11/98	Nelson, et al.	536	24.3	
	C17	5,736,365	4/98	Walker, et al.	435	91.2	
	C18	5,814,491	9/98	Vijg, et al.	435	91/2	
AC	C19	5,445,933	8/95	Eadie, et al.	435	6	
	C20	5,561,044	10/96	Walker, et al.	435	6	

Examiner

Arjun K. Chakrabarti

Date Considered

2/13/03

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(Rev. 5/92) Comparable to, Form PTO-1449				U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. PRO 105.0 (6868/75530)		Serial No. 09/406,147	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)						Applicants Shultz, et al.			
						Filing Date September 27, 1999		Group 1643	

Ac	C21	5,824,517	10/98	Cleuziat, et al.	435	91.2	
	C22	5,579,820	6/98	Hornes, et al.	435	91.1	
	C23	5,512,439	4/96	Hornes, et al.	435	6	
	C24	5,880,473	3/99	Ginestet	250	458.1	
	C25	5,843,660	12/98	Schumm, et al.	435	6	
	C26	5,853,981	12/98	Kondo, et al.	435	5	
	C27	5,861,242	1/99	Chee, et al.	435	5	
	C28	5,863,736	1/99	Haaland	435	6	
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	C32	5,723,591	3/98	Livak, et al.	536	22.1	
	C33	5,691,146	11/97	Mayrand	435	6	
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							Yes	No
	A7	WO 94/25619	11/10/94	PCT/UK	C12Q	1/00		
	A8	GB 2,055,200	12/25/81	UK	G01N 21	76		
	B3	WO 98/28440	7/2/98	PCT	C12Q	1/68		
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A9	A.E. Sippel, "Purification and Characterization of Adenosine Triphosphate: Ribonucleic Acid Adenyltransferase from <i>Escherichia coli</i> " <i>Eur. J. Biochem.</i> 37:31-40 (1973)	
A10	K. Chowdhury, N. Kaushik, V.N. Pandey and M.J. Modak, "Elucidation of the Role of Arg 110 of Murine Leukemia Virus Reverse Transcriptase in the Catalytic Mechanism: Biochemical Characterization of Its Mutant Enzymes," <i>Biochemistry</i> , 35:16610-16620 (1996)	
A11	S. Karamohamed, M. Ronaghi and P. Nyren, "Bioluminometric Method for Real-Time Detection of Reverse Transcriptase Activity", <i>Biotechniques</i> , 24:302-306 (February, 1998)	
A12	B. Hove-Jensen, K.W. Harlow, C.J. King, R.L. Switzer, "Phosphoribosylpyrophosphate Synthetase of <i>Escherichia coli</i> ", <i>J. Biol. Chem.</i> , 261(15):6765-6771 (1986)	

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	A19	S. Tabor and C.C. Richardson, "DNA Sequence Analysis With a Modified Bacteriophage T7 DNA Polymerase", <i>J. Biol. Chem.</i> , 265(14):8322-8328 (1990)			
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	B6	Srivastavan & Modak, <i>J. Biol. Chem.</i> , 255(5):2000-2004 (1980)			
	B7	Sano & Feix, <i>Eur. J. Biochem.</i> , 71:577-583 (1976)			
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	B9	Parks & Agarwal in <i>The Enzymes</i> , Vol. 9:307-333, P. Boyer Ed. (1973)			
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	B16	de Vega, et al., "Primer Terminus Stabilizing at the 3'-5' exonuclease active site of ϕ 29 DNA polymerase. Involvement of two amino acid residues highly conserved in proofreading DNA polymerases", <i>EMBO J.</i> , 15(5):1182-1192 (1996)			
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	B19	S. Zinnen et al., <i>J. Biological Chemistry</i> , 269(39):24195-24202 (1994)			
✓	B20	J. Lindquist, Dept. of Bacteriology, University of Wisconsin-Madison, http://www.bact.wisc.edu/bact102/102dil3.html			
Ac	B21	J. Lindquist, Dept. of Bacteriology, University of Wisconsin-Madison, http://www.bact.wisc.edu/bact102/102dil3a.html			
Examiner	Arun K. Chakrabarti			Date Considered	2/13/03
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(Rev. 5/92) Comparable to Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. PRO 102.0 (6868/75530)	Serial No. 09/406,137
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicants Shultz, et al.	
				Filing Date September 27, 1999	Group 1643
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
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	B23	P. Nyren, B. Pettersson, and M. Uhlen, "Solid Phase DNA Minisequencing by an Enzymatic Luminometric Inorganic Pyrophosphate Detection Assay," <i>Anal. Biochem.</i> , 208:171-175 (1993)			
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	C51	P. Nyren, et al., <i>Anal. Biochem.</i> , 244:367-373 (1997)			
	C52	S. Bormann, "Developers of Novel DNA Sequencers Claim Major Performance Advances", <i>C&EN</i> , pp. 37-40 (7/24/1995)			
	C53	P. Belgrader, et al., "PCR Detection of Bacteria in Seven Minutes", <i>Science Magazine</i> 284:449-450 (1999)			
AC	C54	K. Hayashi <i>Genetic Analysis: Techniques and Applications</i> 9:73-79 (1992)			
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	C57	T. Nikiforov, et al., <i>Nucl. Acids Res.</i> , 22:4167-4175 (1994)
	C58	C. Wittwer, et al., <i>Biotechniques</i> , 22:130-138 (1997)
	C59	P. Holland, et al., <i>Proc. Natl. Acad. Sci., USA</i> , 88:7276-7280 (1991)
✓	C60	R. Kramer, et al., <i>Nat. Biotechnol.</i> , 14:303-308 (1996)
AC	D1	J. Shultz, D. Leippe, K. Lewis and M. Nelson, "Non-radioactive Measurement of DNA Using Coupled Enzymatic Reactions", Presentation March 16-20, 1998 at a Parenteral Drug Association meeting in San Francisco, California

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U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
AC	E1	4,331,762	5/25/82	Nakajima, et al.	435	190	
	E2	4,338,395	7/6/82	Leon, et al.	435	17	
	E3	4,352,881	10/5/82	Inagawa, et al.	435	17	
	E4	4,357,420	11/2/82	Bostick, et al.	435	8	
	E5	4,368,261	1/11/83	Klose, et al.	435	15	
	E6	4,371,611	2/1/83	Fusee	435	14	
	E7	4,394,445	7/19/83	Nix, et al.	435	19	
	E8	4,415,655	11/15/83	De Castro, et al.	435	17	
	E9	4,438,124	3/20/84	Meister, et al.	424	270	
	E10	4,443,594	4/17/84	Buckmann	536	27	
	E11	4,485,177	11/27/84	Stedel, et al.	436	547	
	F1	4,303,752	12/91	Kolehmainen, et al.	435	8	
	F2	5,403,711	4/95	Walder, et al.	435	6	
	F3	5,660,988	8/97	Duck, et al.	435	6	
	F4	5,731,146	3/98	Duck, et al.	435	6	
	F5	5,786,139	7/98	Burke, et al.	435	6	
	F6	5,391,480	2/95	Davis, et al.	435	6	
	F7	6,066,483	5/00	Riggs, et al.	435	194	
	F8	5,530,192	6/96	Murase, et al.	800	205	
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	F12	5,356,776	10/94	Kambara, et al.	435	6	
	F13	5,683,877	11/97	Lu-Chang, et al.	435	6	
	F14	5,741,635	4/98	Boss, et al.	435	4	
	F15	5,622,824	4/97	Koster, et al.	435	6	
	F16	5,494,810	2/96	Barany, et al.	435	91.52	
✓	F17	5,902,722	5/99	Di Cesare, et al.	435	4	
AC	F35	5,541,311	7/30/96	Dahlberg, et al.	536	23.7	

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	F21	WO 98/54362	4/98	PCT				
	F22	EP 639 647 A	7/94	Europe				
	F23	WO 94/25619	11/94	PCT				
	F24	WO 95/21938	8/95	PCT				
	F25	WO 92/13963	8/92	PCT				
	F26	WO 97/41256	11/97	PCT				
	F27	WO 91/17264	11/91	PCT				
	F28	WO 90/05530	5/90	PCT				
	F29	WO 96/41014	12/96	PCT				

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	F31	http://Comb5-156.umbi.umd.edu/cgi-bin/PfufGene.PL?GeneID=894645&Dataset=Nayb&Geneidxt=994645 , Online! XP002144446, Retrieved from the internet on 2000-08-07
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